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What is claimed is:

- A system for catalytic reforming of naphtha, said system comprising at least one reactor comprising a monolithic catalyst having honeycomb-type structure, wherein said naphtha passes through said reactor along a flow path from a reactor inlet to a reactor outlet.
- 2. The system of claim 1 wherein said flow path is substantially axial.
- The system of claim 1 wherein geometry of said monolithic catalyst varies along said flow path.
 - 4. The system of claim 3 wherein wall thickness of said monolithic catalyst varies along said flow path.
 - The system of claim 4 wherein said wall thickness increases or decreases along said flow path in the direction of flow.
 - The system of claim 3 wherein equivalent diameter of said monolithic catalyst varies along said flow path.
 - The system of claim 6 wherein said equivalent diameter increases or decreases along said flow path in the direction of flow.
- 25 8. The system of claim 1 wherein said monolithic catalyst comprises substantially uniform geometry along said flow path.
 - The system of claim 1 wherein composition of said monolithic catalyst varies along said flow path.
 - 10. The system of claim 1 wherein said monolithic catalyst comprises gamma alumina.

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- 11. The system of claim 10 wherein said gamma alumina is coated on a ceramic honeycomb material.
- The system of claim 1 wherein said monolithic catalyst comprises Pt, Pd, Re, Ir, or Sn.
 - 13. The system of claim 1 wherein said monolithic catalyst comprises chloride.
 - 14. The system of claim 1 wherein said monolithic catalyst has an open frontal area percentage of from about 25 to about 90%, a cell density of from about 10 to about 2000 cpsi, and a wall thickness of from about 50 to about 1000µm.
 - 15. The system of claim 1 wherein said reactor further comprises heat exchange surfaces
 - 16. A system for catalytic reforming of naphtha, said system comprising a plurality of reactors connected in series, said plurality of reactors comprising a first reactor and at least one subsequent reactor, wherein each reactor of said plurality of reactors comprises a monolithic catalyst having honeycomb-type structure, and wherein said naphtha passes through said plurality of reactors sequentially beginning at said first reactor.
 - The system of claim 16 wherein at least one reactor of said plurality of reactors comprises an axial flow path.
 - 18. The system of claim 16 comprising three or four reactors.
- 19. The system of claim 16 wherein said monolithic catalyst of at least two reactors of said plurality of reactors comprises substantially the same geometry.

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- 20. The system of claim 16 wherein said monolithic catalyst of at least two reactors of said plurality of reactors comprises different geometry.
- The system of claim 16 wherein the percentage of open frontal area of said monolithic catalyst of said first reactor is highest.
 - The system of claim 16 wherein equivalent diameter of said monolithic catalyst of said first reactor is smallest.
 - The system of claim 16 wherein wall thickness of said monolithic catalyst of said first reactor is smallest.
 - 24. A process for catalytic reforming of naphtha, said process comprising passing naphtha through at least one reactor comprising a monolithic catalyst having honeycomb-type structure, wherein said naphtha passes through said reactor along a flow path from a reactor inlet to a reactor outlet.
 - 25. The process of claim 24 wherein said flow path is substantially axial.
 - 26. The process of claim 24 wherein geometry of said monolithic catalyst varies along said flow path.
 - 27. The process of claim 26 wherein wall thickness of said monolithic catalyst varies along said flow path.
 - 28. The process of claim 27 wherein said wall thickness increases or decreases along said flow path in the direction of flow.
 - The process of claim 26 wherein equivalent diameter of said monolithic catalyst varies along said flow path.

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- 30. The process of claim 29 wherein said equivalent diameter increases or decreases along said flow path in the direction of flow.
- The process of claim 24 wherein composition of said monolithic catalyst varies along said flow path.
 - 32. The process of claim 24 wherein said monolithic catalyst comprises gamma alumina.
- 33. The process of claim 32 wherein said gamma alumina is coated on a ceramic honeycomb material.
 - 34. The process of claim 24 wherein said monolithic catalyst comprises Pt, Pd, Re, Ir, or Sn.
 - 35. The process of claim 24 wherein said monolithic catalyst comprises chloride.
 - 36. The process of claim 24 wherein said monolithic catalyst comprises substantially uniform geometry along said flow path.
 - 37. The process of claim 24 wherein said monolithic catalyst has an open frontal area percentage of from about 25 to about 90%, a cell density of from about 10 to about 2000 cpsi, and a wall thickness of from about 50 to about 1000µm.
- 25 38. The process of claim 24 wherein said reactor further comprises heat exchange surfaces.
 - 39. A process for catalytic reforming of naphtha, said process comprising feeding said naphtha to a system comprising a plurality of reactors connected in series, said plurality of reactors comprising a first reactor and at least one subsequent reactor, wherein each reactor of said plurality of reactors comprises a monolithic catalyst

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having honeycomb-type structure, and wherein said naphtha passes through said plurality of reactors sequentially beginning at said first reactor.

- The process of claim 39 wherein at least one reactor of said plurality of reactors 40. comprises an axial flow path.
 - The process of claim 39 comprising three or four reactors. 41.
 - The process of claim 39 wherein said monolithic catalyst of at least two reactors 42. of said plurality of reactors comprises substantially the same geometry.
 - The process of claim 39 wherein said monolithic catalyst of at least two reactors 43. of said plurality of reactors comprises different geometry.
 - The process of claim 39 wherein the percentage of open frontal area of said 44. monolithic catalyst of said first reactor is highest.
 - The process of claim 39 wherein equivalent diameter of said monolithic catalyst 45. of said first reactor is smallest.
 - The process of claim 39 wherein wall thickness of said monolithic catalyst of 46 said first reactor is smallest.
 - A reactor for catalytic reforming of naphtha, said reactor comprising a 47. monolithic catalyst having honeycomb-type structure, wherein said monolithic catalyst has an open frontal area percentage of from about 25 to about 90%, a cell density of from about 10 to about 2000 cpsi, and a wall thickness of from about 50 to about 1000µm.
- A reactor for catalytic reforming of naphtha, said reactor comprising a 30 48. monolithic catalyst having honeycomb-type structure, wherein the geometry of said monolithic catalyst is axially graded.